

**WHAT IS CLAIMED IS:**

1        1.     A method of modifying a memory in a battery unit of a mobile information  
2 handling device comprising:  
3                assigning a predetermined data word to an available address in memory;  
4                receiving data in a non-reprogrammable section of the memory;  
5                modifying a programmable section of the memory if the received data complies with  
6                the predetermined data word; and  
7                performing a checksum of registers in the memory.

1        2.     The method of modifying a memory in a battery unit of a mobile information  
2 handling device of claim 1 further comprising:  
3                multiplexing the received data with a control signal before the non-programmable  
4                section of the memory receives the data.

1        3.     The method of modifying a memory in a battery unit of a mobile information  
2 handling device of claim 1 further comprising:  
3                performing additional security measures prior to modifying the programmable section  
4                of the memory.

1        4.     The method of modifying a memory in a battery unit of a mobile information  
2 handling device of claim 2 further comprising:  
3                performing additional security measures prior to modifying the programmable section  
4                of the memory.

1        5.     The method of modifying a memory in a battery unit of a mobile information  
2 handling device of claim 1 further comprising:  
3                controlling sent data from a firmware control hub in the mobile information handling  
4                device.

1       6.     The method of modifying a memory in a battery unit of a mobile information  
2 handling device of claim 2 further comprising:

3             controlling sent data from a firmware control hub in the mobile information handling  
4             device.

1       7.     The method of modifying a memory in a battery unit of a mobile information  
2 handling device of claim 3 further comprising:

3             controlling sent data from a firmware control hub in the mobile information handling  
4             device.

1       8.     The method of modifying a memory in a battery unit of a mobile information  
2 handling device of claim 1 wherein data is transmitted along a system management bus.

1       9.     The method of modifying a memory in a battery unit of a mobile information  
2 handling device of claim 2 wherein data is transmitted along a system management bus.

1       10.    The method of modifying a memory in a battery unit of a mobile information  
2 handling device of claim 3 wherein data is transmitted along a system management bus.

1       11.    The method of modifying a memory in a battery unit of a mobile information  
2 handling device of claim 4 wherein data is transmitted along a system management bus.

1       12.    The method of modifying a memory in a battery unit of a mobile information  
2 handling device of claim 5 wherein data is transmitted along a system management bus.

1       13.    The method of modifying a memory in a battery unit of a mobile information  
2 handling device of claim 6 wherein data is transmitted along a system management bus.

1       14.    The method of modifying a memory in a battery unit of a mobile information  
2 handling device of claim 7 wherein data is transmitted along a system management bus.

1        15. A mobile information handling device wherein a memory in a battery unit  
2 powering the mobile information handling device is reprogrammed comprising:  
3        a processor;  
4        a computer readable medium coupled to the processor; and  
5        computer code, encoded in the computer readable medium configured to cause the  
6        processor to:  
7        assign a predetermined data word to an available address in memory;  
8        receive data in a non-reprogrammable section of the memory;  
9        modify a programmable section of the memory if the received data complies  
10        with the predetermined data word; and  
11        perform a checksum of registers in the memory.

1        16. The mobile information handling device of claim 15 wherein the processor  
2 further:  
3        multiplexes the received data with a control signal before the non-programmable  
4        section of the memory receives the data.

1        17. The mobile information handling device of claim 15 wherein the processor  
2 further:  
3        performs additional security measures prior to modifying the programmable section of  
4        the memory.

1        18. The mobile information handling device of claim 16 wherein the processor  
2 further:  
3        performs additional security measures prior to modifying the programmable section of  
4        the memory.

1        19. The mobile information handling device of claim 16 wherein a firmware  
2 control hub in the mobile information handling device controls sent data.

1        20. The mobile information handling device of claim 17 wherein a firmware  
2 control hub in the mobile information handling device controls sent data.

1        21. The mobile information handling device of claim 18 wherein a firmware  
2 control hub in the mobile information handling device controls sent data.

1        22. The mobile information handling device of claim 15 wherein data is  
2 transmitted along a system management bus.

1        23. The mobile information handling device of claim 16 wherein data is  
2 transmitted along a system management bus.

1        24. The mobile information handling device of claim 17 wherein data is  
2 transmitted along a system management bus.

1        25. The mobile information handling device of claim 18 wherein data is  
2 transmitted along a system management bus.

1        26. The mobile information handling device of claim 19 wherein data is  
2 transmitted along a system management bus.

1        27. The mobile information handling device of claim 20 wherein data is  
2 transmitted along a system management bus.

1        28. The mobile information handling device of claim 21 wherein data is  
2 transmitted along a system management bus.

1        29. An apparatus to modify a memory in a battery unit of a mobile information  
2 handling device comprised of:  
3            means for assigning a predetermined data word to an available address in memory;  
4            means for receiving data in a non-reprogrammable section of the memory;  
5            means for modifying a programmable section of the memory if the received data  
6                    complies with the predetermined data word; and  
7            means for performing a checksum of registers in the memory.

1       30. The apparatus to modify a memory in a battery unit of a mobile information  
2 handling device of claim 29 further comprised of:

3           means for multiplexing the received data with a control signal before the non-  
4           programmable section of the memory receives the data.

1       31. The apparatus to modify a memory in a battery unit of a mobile information  
2 handling device of claim 29 further comprised of:

3           means for performing additional security measures prior to modifying the  
4           programmable section of the memory.

1       32. The apparatus to modify a memory in a battery unit of a mobile information  
2 handling device of claim 30 further comprised of:

3           means for performing additional security measures prior to modifying the  
4           programmable section of the memory.

1       33. The apparatus to modify a memory in a battery unit of a mobile information  
2 handling device of claim 29 further comprised of:

3           means for controlling sent data from a firmware control hub in the mobile information  
4           handling device.

1       34. The apparatus to modify a memory in a battery unit of a mobile information  
2 handling device of claim 30 further comprised of:

3           means for controlling sent data from a firmware control hub in the mobile information  
4           handling device.

1       35. The apparatus to modify a memory in a battery unit of a mobile information  
2 handling device of claim 31 further comprised of:

3           means for controlling sent data from a firmware control hub in the mobile information  
4           handling device.

1       36. The apparatus to modify a memory in a battery unit of a mobile information  
2 handling device of claim 29 wherein data is transmitted along a system management bus.

1       37. The apparatus to modify a memory in a battery unit of a mobile information  
2 handling device of claim 30 wherein data is transmitted along a system management bus.

1       38. The apparatus to modify a memory in a battery unit of a mobile information  
2 handling device of claim 31 wherein data is transmitted along a system management bus.

1       39. The apparatus to modify a memory in a battery unit of a mobile information  
2 handling device of claim 32 wherein data is transmitted along a system management bus.

1       40. The apparatus to modify a memory in a battery unit of a mobile information  
2 handling device of claim 33 wherein data is transmitted along a system management bus.

1       41. The method of modifying a memory in a battery unit of a mobile information  
2 handling device of claim 34 wherein data is transmitted along a system management bus.

1       42. The method of modifying a memory in a battery unit of a mobile information  
2 handling device of claim 35 wherein data is transmitted along a system management bus.

1       43. A computer program product that modifies a memory in a battery unit of a  
2 mobile information handling device comprising:  
3           a first set of instructions to assign a predetermined data word to an available address  
4           in memory;  
5           a second set of instructions to receive data in a non-reprogrammable section of the  
6           memory;  
7           a third set of instructions to modify a programmable section of the memory if the  
8           received data complies with the predetermined data word; and  
9           a fourth set of instructions to perform a checksum of registers in the memory.

1       44. The computer program product of claim 43 further comprising:  
2           a fifth set of instructions to multiplex the received data with a control signal before  
3           the non-programmable section of the memory receives the data.

1       45. The computer program product of claim 43 further comprising:  
2            a sixth set of instructions to perform additional security measures prior to  
3            modifying the programmable section of the memory.

1       46. The computer program product of claim 44 further comprising:  
2            a sixth set of instructions to perform additional security measures prior to  
3            modifying the programmable section of the memory.

1       47. The computer program product of claim 43 further comprising:  
2            a seventh set of instructions to control sent data from a firmware control hub  
3            in the mobile information handling device.

1       48. The computer program product of claim 44 further comprising:  
2            a seventh set of instructions to control sent data from a firmware control hub  
3            in the mobile information handling device.

1       49. The computer program product of claim 45 further comprising:  
2            a seventh set of instructions to control sent data from a firmware control hub  
3            in the mobile information handling device.

1       50. The computer program product of claim 42 wherein data is transmitted along a  
2            system management bus.

1       51. The computer program product of claim 43 wherein data is transmitted along a  
2            system management bus.

1       52. The computer program product of claim 44 wherein data is transmitted along a  
2            system management bus.

1       53. The computer program product of claim 45 wherein data is transmitted along a  
2            system management bus.

1       54. The computer program product of claim 46 wherein data is transmitted along a  
2            system management bus.

1        55. The computer program product of claim 47 wherein data is transmitted along a  
2 system management bus.

1        56. The computer program product of claim 48 wherein data is transmitted along a  
2 system management bus.

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